

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1-9. (canceled).

10. (previously presented): An image data transmission system comprising:

an image server storing image data;

a terminal coupled to the image server;

an information obtaining module, configured to obtain at least one of content information regarding image data to be transmitted and network transfer rate data; and

a data transfer module configured to transfer to the terminal said image data at a level of resolution and density based on said at least one of content information regarding image data to be transmitted and network transfer rate data.

11. (previously presented): The system of claim 10, wherein said content information regarding image data comprises the complexity of the image, such that image data at a higher resolution and density are transferred in accordance with an increased complexity of the image.

12. (previously presented): The system of claim 10, wherein said content information regarding image data comprises the object depicted by the image data, such that image data depicting certain pre-determined objects are transferred at a higher resolution and density.

13. (previously presented): The system according to claim 11, wherein image data are stored at a high level of resolution and density and if the system determines based on at least one of said content information regarding image data to be transmitted and network transfer rate data that image data at a lower level of resolution and density are to be transferred, then image data are converted prior to transfer to the terminal to image data at lower level of resolution and density, wherein image data at a high level of resolution and density are reversibly compressed and image data at a low level of resolution and density are irreversibly compressed.

14. (previously presented): The system according to claim 12, wherein image data are stored at a high level of resolution and density and if the system determines based on at least one of said content information regarding image data to be transmitted and network transfer rate data that image data at a lower level of resolution and density are to be transferred, then image data are converted prior to transfer to the terminal to image data at lower level of resolution and density, wherein image data at a high level of resolution and density are reversibly compressed and image data at a low level of resolution and density are irreversibly compressed.

15. (new): The system according to claim 10, wherein the image data is stored at the image server as wavelet-transformed data.

16. (new): The system according to claim 10 further comprising a plurality of medical image input modalities providing the image data.

17. (new): The system according to claim 10, wherein the image data to be transmitted depicts at least two portions and the information obtaining module obtains the content information from one of the at least two portions.

18. (new): The system according to claim 11, wherein the complexity is calculated by using a fractal dimension analysis.

19. (new): The system according to claim 10, wherein the information obtaining module obtains the content information, wherein the content information is radiation dosage information.

20. (new): The system according to claim 10, wherein said image data depicts predetermined objects and the information obtaining module obtains the content information from at least one of the predetermined objects.

21. (new): An image data transmission system comprising:

an image server storing image data; and

a terminal coupled to the image server, wherein the image data is transferred to said terminal at a level of resolution based on one of identification of a user requesting the image data, a role of the user, and a purpose of diagnosis.

AMENDMENT UNDER 37 C.F.R. § 1.111

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22. (new): The system according to claim 21 further comprising a user-resolution table.

23. (new): The system according to claim 21, wherein the role of the user comprises one of a radiologist, a physician, a clinician, an intern, and a technician.

24. (new): An image data transmission system for desktop publishing comprising:

an image server storing image data; and

a terminal coupled to the image server, wherein the image data is transferred to said terminal at a level of resolution based on one of identification of a user requesting the image data and role of the user requesting the image data.

25. (new): The system according to claim 24, wherein the role of the user comprises one of an orderer, a scanner operator, an editing operator, a print master, and a printing operator.

26. (new): The system according to claim 24 further comprising a user-resolution table.